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IN THE CLAIMS

Please amend claim 17 to read as follows:

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17. (Amended) A radar level transmitter for providing level detection of materials in a container, the transmitter comprising:

an antenna;

a transceiver coupled to the antenna and configured to transmit a microwave pulse having a transmit pulse amplitude using the antenna and produce a signal representing reflected wave pulses;

a microprocessor system coupled to the transceiver and adapted to control the transceiver and process the signal;

a threshold calculation module executable by the microprocessor system and adapted to calculate a first threshold value as a function of the transmit pulse amplitude and properties of the materials; and

a level calculation module executable by the microprocessor system and adapted to establish a level of a first material interface using the signal and the first threshold value.

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